Please amend the application in the manner indicated below.

Amendments to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) An integrated circuit with a micromechanical element comprising:
 - a semiconductor support substrate supporting;
- a micromechanical sensor element[[,]]formed on the semiconductor substrate and comprising a microengineered movable element;
 - a logic circuit formed on the semiconductor substrate; and
 - a semiconductor visual display element formed on the semiconductor substrate[[,]];
- wherein the sensor element is electrically connected to the logic circuit, and the logic circuit being is electrically connected to the semiconductor visual display element.
- 2. (Original) The integrated circuit of claim 1 wherein said semiconductor display element comprises an array of light-emitting pn junctions.
- 3. (Original) The integrated circuit of claim 2 wherein said light-emitting pn junctions comprise GaAs light-emitting pn junctions.

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4. (Previously Presented) The integrated circuit of claim 1 wherein said visual display element comprises an array of semiconductor pixels having pitch dimensions of less than 20 micrometers.

5. (Previously Presented) The integrated circuit of claim 2 wherein said visual display element comprises an array of semiconductor pixels having pitch dimensions of less than 20 micrometers.

6. (Previously Presented) The integrated circuit of claim 3 wherein said visual display element comprises an array of semiconductor pixels having pitch dimensions of less than 20 micrometers.

7. (Original) The integrated circuit of claim 1 wherein said sensor element is selected from the group consisting of strain gauges, thermal gauges, radiation gauges, and chemically responsive gauges.

8-11. (Canceled).

- 12. (Currently Amended) An integrated circuit with a micromechanical element comprising:
 - a semiconductor support substrate supporting;
 - a moveable micromechanical sensor element[[5]] formed on the semiconductor substrate;
 - a logic circuit formed on the semiconductor substrate; and
- a semiconductor light emitting visual display element[[,]] formed on the semiconductor substrate;

wherein the moveable micromechanical sensor element <u>is</u> electrically connected to the logic circuit, and the logic circuit <u>being is</u> electrically connected to the semiconductor light emitting visual display element.

- 13. (Currently Amended) An integrated circuit provided on a <u>semiconductor</u> substrate with a unified input element and display element, the integrated circuit comprising:
 - a moveable microengineered input element formed on the substrate;
- a logic circuit configured on the substrate and electrically connected to the input element; and
 - an output element, the logic circuit being electrically connected to the output element; wherein the output element is a semiconductor visual display element.
- 14. (Currently Amended) The integrated circuit of claim 13, further comprising:

 a semiconductor support substrate supporting wherein the input element is formed on the substrate.

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- 15. (Previously Presented) The integrated circuit of claim 14, wherein the input element is a micromechanical sensor element.
- 16. (Previously Presented) The integrated circuit of claim 14, wherein the input element is selected from a group consisting of an inertial sensor and an accelerometer.
- 17. (Previously Presented): The integrated circuit of claim 14, wherein the input element is selected from a group consisting of a strain gauge, a thermal gauge, a radiation gauge, and a chemically responsive gauge.
- 18. (Previously Presented) The integrated circuit of claim 15, wherein the micromechanical sensor element is configured to generate an electrical signal in response to an environmental or conditional change.
- 19. (Previously Presented) The integrated circuit of claim 18, wherein the output element is an array comprising pixels of less than 25 micrometers.
- 20. (Previously Presented) The integrated circuit of claim 18, wherein the output element is an array comprising pixels configured to display alphanumeric characters.
- 21. (Previously Presented) The integrated circuit of claim 20 wherein the input element is a first input element, the integrated circuit further comprising:

a second input element.

- 22. (Previously Presented) The integrated circuit of claim 1 wherein the visual display element provides a visual indication of a condition sensed by the sensor element.
- 23. (Previously Presented) The integrated circuit of claim 22 wherein the visual indication comprises an alphanumeric character.
- 24. (Previously Presented) The integrated circuit of claim 22 wherein the visual indication comprises multiple colors.
- 25. (Currently Amended) An integrated circuit provided on a <u>semiconductor</u> substrate with a unified input element and display element, the integrated circuit comprising:

a moveable microengineered input element supported by formed on the substrate that senses a condition;

a logic circuit configured on the substrate and electrically connected to the input element; and

a visual display element supported by the substrate and coupled to the logic circuit that provides a visual image;

wherein the visual image is a visual representation of the sensed condition.

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26. (Currently Amended) An integrated circuit provided on a <u>semiconductor</u> substrate

with a unified input element and display element, the integrated circuit comprising:

a moveable microengineered input element supported by formed on the substrate that

senses a condition, wherein the input element is a strain gauge;

a logic circuit configured on the substrate and electrically connected to the input element;

and

a visual display element having multiple light-emitting pn junctions supported by the

substrate and coupled to the logic circuit, wherein the visual display element provides a visual

image comprising a visual representation of the sensed condition.

27. (Canceled).